

# Mohammed Nouredine

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## EDUCATION

### Northeastern University

Master of Computer Science (MScS)

Seattle, WA

Expected Apr 2026

- **GPA:** 4.0/4.0

- **Relevant Coursework:** Algorithms, Data Structures, Object-Oriented Design, Databases, Cloud Computing

### University of British Columbia

Bachelor of Commerce (Finance + Data Analytics)

Vancouver, BC

Nov 2022

- **GPA:** 3.7/4.0

## EXPERIENCE

### Software Engineer Intern

Jan 2025 – Apr 2025

Shopify

Ottawa, ON

- Built API integrations and dynamic **React** UIs for Shopify Sidekick, an AI chat assistant, using **Ruby** and **GraphQL**, driving **55%** adoption among early-access users.
- Improved workflow reliability by **40%** through comprehensive **end-to-end testing** using **Playwright**.
- Refactored the **Shopify Product Page** by transitioning from dynamic data fetching to **route-based loading**, reducing load times by **15%** and improving the scalability of the page to handle millions of concurrent users.
- Improved **Shopify Magic**, the AI product recommendation system, boosting prediction accuracy by **60%**.

### Data Analyst

Jan 2023 – Aug 2023

Definity Financial

Toronto, ON

- Automated capital forecast modeling with **Pandas**, reducing report generation time by **80%**.
- Developed **SQL** queries and **ETL** pipelines to clean and analyze large datasets, improving data processing performance by **25%** and enhancing data accessibility.
- Migrated a legacy **VBA** debt tool to **Python**, cutting runtime by **30%**, enabling faster decision-making.
- Built interactive dashboards using **Power BI**, facilitating real-time insights.

### Software Engineer Intern

Sept 2022 – Nov 2022

C&M Contracting

Vancouver, BC

- Built an internal quotation and expense management system with **SpringBoot**, accelerating approvals and increasing customer conversion by **15%**.
- Implemented secure authentication and role-based access, improving data control and confidentiality.
- Developed a **React** dashboard to track key financial metrics and enhance usability.

## PROJECTS

### Dental Management System | TypeScript, GraphQL, Express.js, React, MongoDB

- Built a dental clinic management platform for handling appointments, billing, and patient records.
- Implemented authentication and a modern UI to streamline patient management and enhance clinic operations.
- Integrated an AI chatbot to summarize dental notes and assist dentists with quick patient overviews.

### FIFA Match Predictor | Python, Scikit-learn, Flask, MySQL

- Trained a machine learning model on FIFA match data to predict game outcomes with improved accuracy.
- Deployed a Flask API for real-time predictions and stored match data and results using MySQL.

### Financial Market Insights Agent | Python, FastAPI, OpenAI, Phidata, Groq

- Built a multi-agent system to automate stock analysis, track market trends, and summarize financial news.
- Leveraged real-time data retrieval and LLMs to deliver analyst recommendations and economic insights through a FastAPI service.

## SKILLS

**Languages:** Java, Python, C++, TypeScript, Ruby, CSS, HTML, SQL

**Frameworks & Databases:** Flask, SpringBoot, NodeJS, ReactJS, MongoDB, MySQL, Processing3

**Developer Tools:** Postman, Git, Linux, AWS, Google Cloud Platform (GCP), Pandas, Numpy